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<p>(21) International Application Number: PCT/CA00/00533 (22) International Filing Date: 5 May 2000 (05.05.00) (30) Priority Data: 60/132,878 5 May 1999 (05.05.99) US (71) Applicant (for all designated States except US): MYCOTA BIOSCIENCES INC. [CA/CA]; Suite 2550, 225, President-Kennedy West, Montreal, Quebec H2X 3Y8 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): ROEMER, Terry [CA/CA]; 4935 Connaught Avenue, Montreal, Quebec H4V 1X4 (CA). BUSSEY, Howard [CA/CA]; 325 Victoria Ave, Westmount, Quebec H3Z 2N1 (CA). DAVISON, John [CA/CA]; 4886 DeBullion, Montreal, Quebec H2T 1Z5 (CA). (74) Agents: DUBUC, Jean, H. et al.; Goudreau Gage Dubuc, The Stock Exchange Tower, Suite 3400, 800 Place Victoria, Montreal, Quebec H4Z 1E9 (CA).</p>		<p>(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> Without international search report and to be republished upon receipt of that report.</p>

(54) Title: IDENTIFICATION OF *CANDIDA ALBICANS* ESSENTIAL FUNGAL SPECIFIC GENES AND USE THEREOF IN ANTIFUNGAL DRUG DISCOVERY

(57) Abstract

The invention relates to the identification and disruption of essential fungal specific genes isolated in the yeast pathogen *Candida albicans* namely *CaKRES*, *CaALR1* and *CaCDC24* and to the use thereof in antifungal diagnosis and as essential antifungal targets in a fungal species for antifungal drug discovery. More specifically, the invention relates to the *CaKRES*, *CaALR1* and *CaCDC24* genes, to their use to screen for antifungal compounds and to the drugs identified by such.

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